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Resin compsn. for optical-stereo product - comprises polyepoxy (meth)acrylate oligomer, polyurethane poly(meth)acrylate oligomer, polyethylene contg. monomer and photoinitiators
Patent Assignee: JAPAN SYNTHETIC RUBBER CO LTD; NIPPON TOKUSHU COATING KK

Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
JP 5279436	A	19931026	JP 92129265	A	19920330	199347	B
JP 3176430	B2	20010618	JP 92129265	A	19920330	200136	

Priority Applications (Number Kind Date): JP 92129265 A (19920330)

Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
JP 5279436	A		8	C08F-299/02	
JP 3176430	B2		8	C08F-299/06	Previous Publ. patent JP 5279436

Abstract:

JP 5279436 A

Resin compsn. contains (A) epoxy (meth)acrylate oligomer, (B) urethane (meth)acrylate oligomer, (C) ethylene-contg. monomer, and (D) photo-radical initiators.

USE/ADVANTAGE - For prodn. of optical stereo prod.. Obtd. prod. has mechanical toughness and is free from deformation.

In an example urethane (meth)acrylate oligomer (A) was prepd. by stirring isobornyl acrylate (200 g), 2,4-trylene di-isocyanate (565g), dibutyl tin dilaurate (2g) and 2,6-di-t-butyl-4-me thyl phenol (3g) with hydroxy ethyl acrylate (376g) at 25 deg.C or lower for 1 hr., and with polyoxy tetramethylene diol (1064g) at 60 deg.C for 5 hrs. to obtain isobornyl acrylate soln. of polyoxy tetramethylene diol urethane acrylate. The resin compsn. was obtd. by stirring (A) (40 pts.), bisphenol A diglycidyl ether diacrylate (10 pts.), N-vinyl pyrrolidone (20 pts.) and isobornyl acrylate (24 pts.), and 1-hydroxy cyclohexyl phenyl ketone (6 pts.) at 50 deg.C for 2 hrs. to form transparent resin compsn. with 350 cP/25 deg.C.

Dwg.0/2

Derwent World Patents Index

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Basic Patent (Number,Kind,Date): JP 7127160 A2 950516

PATENT FAMILY:

Japan (JP)

Patent (Number,Kind,Date): JP 7127160 A2 950516
STRUCTURE OF OPENING PART ON WALL PANEL (English)
Patent Assignee: SEKISUI CHEMICAL CO LTD
Author (Inventor): MAEKAWA TSUTOMU
Priority (Number,Kind,Date): JP 93279436 A 931109
Applic (Number,Kind,Date): JP 93279436 A 931109
IPC: * E04B-002/00
Language of Document: Japanese

INPADOC/Family and Legal Status

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Basic Patent (Number,Kind,Date): JP 5279436 A2 19931026

PATENT FAMILY:

Japan (JP)

Patent (Number,Kind,Date): JP 5279436 A2 19931026
RESIN COMPOSITION FOR FORMING OPTICAL STERIC MATERIAL (English)
Patent Assignee: JAPAN SYNTHETIC RUBBER CO LTD; NIPPON TOKUSHU KOOTEINGU
KK
Author (Inventor): IWANAGA SHINICHIRO; OKAWA MASAYOSHI; SATO YOSHIHIRO;
IGARASHI KATSUTOSHI
Priority (Number,Kind,Date): JP 92129265 A 19920330
Applic (Number,Kind,Date): JP 92129265 A 19920330
IPC: * C08F-299/02; B29C-067/00; B29K-105-24; B29K-105-32
CA Abstract No: ; 121(02)010938T
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CA Abstract No: * 121(02)010938T
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Basic Patent (Number,Kind,Date): ES 229546 U 770816

PATENT FAMILY:

Austria (AT)

Patent (Number,Kind,Date): AT 7704379 A 790715

FAHRZEUGRAD, INSBESONDERE FUER MOTORRAEDER, MOPEDS U. DGL. (German)

Patent Assignee: LELEU & CIE ETS (FR)

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): AT 774379 A 770621

National Class: * AT 63D ,001/10

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Language of Document: German

Patent (Number,Kind,Date): AT 355438 B 800310

FAHRZEUGRAD, INSBESONDERE FUER MOTORRAEDER, MOPEDS U. DGL. (German)

Patent Assignee: LELEU & CIE ETS (FR)

Author (Inventor): LELEU PIERRE

Priority (Number,Kind,Date): AT 774379 A 770621

Applic (Number,Kind,Date): AT 774379 A 770621

National Class: * AT 63D ,001/10

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Language of Document: German

Austria (AT) - Legal Status

Number	Type	Date	Code	Text
AT 774379 A		760702	AT AAA	PRIORITY OF THE APPLICATION (PATENT APPLICATION) (PRIORITAET DER ANMELDUNG (PATENTANMELDUNG)) FR 7620964 A 760702
AT 774379 A		770621	AT AEA	DATE OF DOMESTIC APPLICATION (DATUM DER INLANDSANMELDUNG) AT 774379 A 770621
AT 774379 A		790715	AT A	PUBLISHED EXAMINED APPLICATION (AUFGEBOET)
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AT 355438 P		770621	AT AE	APPLIED (PATENT APPLICATION) (ANGEMELDET (PATENTANMELDUNG)) AT 774379 A 770621
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Germany (DE)

Patent (Number,Kind,Date): DE 2728160 A1 780112

FAHRZEUGRAD, INSBESONDERE FUER MOTORRAEDER, MOPEDS U.DGL. (German)

Patent Assignee: LELEU & CIE ETS

Author (Inventor): LELEU PIERRE

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): DE 2728160 A 770620

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Language of Document: German

Patent (Number,Kind,Date): DE 2728160 B2 791213

FAHRZEUGRAD, INSBESONDERE FUER MOTORRAEDER, MOPEDS U.DGL. (German)

Patent Assignee: LELEU & CIE ETS

Author (Inventor): LELEU PIERRE

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): DE 2728160 A 770620

IPC: * B60B-001/14

Language of Document: German

Patent (Number,Kind,Date): DE 2728160 C3 800821

FAHRZEUGRAD, INSBESONDERE FUER MOTORRAEDER, MOPEDS U.DGL. (German)

Patent Assignee: LELEU & CIE ETS

Author (Inventor): LELEU PIERRE

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): DE 2728160 A 770620

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Patent (Number,Kind,Date): DE 7719613 U1 771020

FAHRZEUGRAD, INSBESONDERE FUER MOTORRAEDER, MOPEDS U.DGL. (German)

Patent Assignee: LELEU & CIE LYON ETS

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): DE 7719613 U 770620

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Language of Document: German

Germany (DE) - Legal Status

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DE 2728160	P	760702	DE AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG)) FR 7620964 A 760702
DE 2728160	P	770620	DE AE	DOMESTIC APPLICATION (PATENT APPLICATION) (INLANDSANMELDUNG (PATENTANMELDUNG)) DE 2728160 A 770620
DE 2728160	P	780112	DE A1	LAYING OPEN FOR PUBLIC INSPECTION (OFFENLEGUNG)
DE 2728160	P	780706	DE OD	REQUEST FOR EXAMINATION (EINGANG VON PRUEFUNGSANTRAGEN)
DE 2728160	P	791213	DE B2	PUBLICATION OF THE EXAMINED APPLICATION AFTER PUBLICATION OF UNEXAMINED APPLICATION (AUSLEGUNG NACH VORHERIGER OFFENLEGUNG)
DE 2728160	P	800821	DE C3	GRANT AFTER TWO PUBLICATION STEPS (3RD PUBLICATION) (PATENTERTEILUNG NACH ZWEI VEROEFFENTLICHUNGSSTUFEN)
DE 2728160	P	830609	DE 8328	CHANGE IN THE PERSON/NAME/ADDRESS OF THE AGENT (AENDERUNG IN PERSON, NAMEN ODER WOHNORT DES VERTRETERS)

PFENNING, J., DIPL.-ING. MEINIG, K., DIPL.-PHYS., PAT.-
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DE 2728160 P 860612 DE CEASED/NON-PAYMENT OF THE ANNUAL FEE
8339 (WEGEN NICHTZ. D. JAHRESGEB. ERLOSCHEN)

Spain (ES)

Patent (Number,Kind,Date): ES 229546 U 770816

RUEDA DE VEHICULO. (Spanish)

Patent Assignee: LELEU & CIE ETS (FR)

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): ES 229546 U 770625

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RUEDA DE VEHICULO. (Spanish)

Patent Assignee: LELEU & CIE ETS (FR)

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): ES 229546 U 770625

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Patent (Number,Kind,Date): ES 229546 Y1 771228

RUEDA DE VEHICULO. (Spanish)

Patent Assignee: LELEU & CIE ETS (FR)

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): ES 229546 U 770625

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Language of Document: Spanish

France (FR)

Patent (Number,Kind,Date): FR 2356524 A1 780127

PERFECTIONNEMENTS AUX ROUES DE VEHICULES (French)

Patent Assignee: DELEU ET CIE ETS (FR)

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): FR 7620964 A 760702

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Language of Document: French

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PERFECTIONNEMENTS AUX ROUES DE VEHICULES (French)

Patent Assignee: DELEU ET CIE ETS (FR)

Priority (Number,Kind,Date): FR 7620964 A 760702

Applic (Number,Kind,Date): FR 7620964 A 760702

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France (FR) - Legal Status

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FR 7620964 AN	780127	FR	AGA	FIRST PUBLICATION OF APPLICATION (DELIVRANCE (PREM. PUB. DEMANDE DE BREVET))
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FR 7620964 AN 860523 FR ST LAPSED
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FR 7620964 A 760702

Great Britain (GB)

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VEHICLES WHEELS (English)
Patent Assignee: LELEU & CIE ETS
Priority (Number,Kind,Date): FR 7620964 A 760702
Applic (Number,Kind,Date): GB 7725343 A 770617
National Class: * GB B7C
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Language of Document: English

Great Britain (GB) - Legal Status

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GB 1553017 P		760702	GB AA	PRIORITY (PATENT) FR 7620964 A 760702
GB 1553017 P		770617	GB AE	APPLICATION DATA (APPL. DATA) GB 7725343 A 770617
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GB 1553017 P		800604	GB CSNS	APPLICATION OF WHICH COMPLETE SPECIFICATION HAVE BEEN ACCEPTED AND PUBLISHED, BUT PATENT IS NOT SEALED (APPL. OF WHICH COMPLETE SPEC. HAVE BEEN ACCEPTED AND PUBLISHED, BUT PATENT IS NOT SEALED)

Italy (IT)

Patent (Number,Kind,Date): IT 1081151 A 850516
PERFEZIONAMENTI IN MERITO A RUOTE DI VEICOLI (Italian)
Patent Assignee: LELEU & CIE ETS (FR)
Priority (Number,Kind,Date): FR 7620964 A 760702
Applic (Number,Kind,Date): IT 7725039 A 770624
IPC: * B60B
Language of Document: Italian

Japan (JP)

Patent (Number,Kind,Date): JP 53007006 A2 780123
WHEEL (English)
Patent Assignee: LELEU & CIE ETS

Author (Inventor): PIEERU RURUU

Priority (Number,Kind,Date): FR 7620964 A 760702

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